

**RAILWAY WHEELS RESISTANT TO MARTENSITE
TRANSFORMATION**

ABSTRACT

5 Steels having a pearlitic structure and
containing 0.60 to 1.0 weight percent carbon, 1.1 to
10 3.0 weight percent silicon, 0.45 to 0.85 weight
percent manganese, less than 0.050 weight percent
sulfur and less than 0.050 weight percent
phosphorus, with the remainder of said steel being
15 iron and incidental impurities, can be used to make
railway wheels that are resistant to martensite
transformations and, hence, spalling. The addition
of 0.50 to 1.0 weight percent chromium to such
steels further improves their resistance to
spalling.